

AMENDMENTS TO THE CLAIMS:

1. (CURRENTLY AMENDED) A device for delivering at least one fuel additive to a fuel, said device comprising an ion-exchange resin to which ~~is removably attached~~ a fuel additive is removably bound by a chemical interaction, wherein the ion-exchange resin is selected from the group consisting of anionic exchange resins and cationic exchange resins, and wherein the fuel additive is at least partially removed from the ion-exchange resin by means of a chemical interaction.
2. (ORIGINAL) The device of claim 1, wherein the fuel is selected from the group consisting of gasoline, middle distillate fuel, diesel, bio diesel, kerosene, and mixture thereof or precursors thereof.
3. (CANCELED)
4. (CURRENTLY AMENDED) The device of claim 1, wherein ~~wherein~~ the ion-exchange resin is selected from the group consisting of anionic exchange resins.
5. (CURRENTLY AMENDED) The device of claim 1, wherein ~~wherein~~ the ion-exchange resin is selected from the group consisting of cationic exchange resins.
6. (CANCELED)
7. (ORIGINAL) The device of claim 1, wherein the fuel additive is at least partially removed from the ion-exchange resin by means of a chemical reaction with a contaminant in the fuel.
8. (CURRENTLY AMENDED) The device of claim 1 6, wherein the fuel additive is at least partially removed from the ion-exchange resin by means of chemical interactions with ~~a component in the fuel is selected from the group consisting of~~ undesired byproducts.
9. (CURRENTLY AMENDED) The device of claim 7, wherein the contaminant in the fuel is an impurity ~~selected from the group consisting of impurities.~~
10. (CANCELED)

11. (ORIGINAL) The device of claim 1, wherein the fuel additive is selected from the group consisting of lubricity additives, combustion improvers, detergents, dispersants, cold flow improvers, dehazers, demulsifiers, cetane improvers, antioxidants, scavengers, and pollution suppressants.
12. (ORIGINAL) The device of claim 1, wherein the fuel additive comprises a manganese-containing compound.
13. (ORIGINAL) The device of claim 1, wherein the device further comprises a permeable membrane through which fuel can permeate into the device and the fuel additive can permeate out of the device.
14. (ORIGINAL) A machine having an engine, said machine comprising the device of claim 1.
15. (ORIGINAL) A vehicle containing the device of claim 1.
16. (ORIGINAL) The vehicle of claim 15, wherein the vehicle is selected from the group consisting of cars, trucks, buses, aircraft, trains, recreation vehicles, water craft, and fuel-powered engines.
17. (CURRENTLY AMENDED) A device for supplying an additive to a fuel and adapted to release the fuel additive into said fuel at a controlled rate, said device comprising:
- a fuel-permeable housing assembly defining a chamber; and
- an ion-exchange resin disposed within said chamber to which ~~is removably bound~~ a fuel additive is removably bound by a chemical interaction, wherein the ion-exchange resin is selected from the group consisting of anionic exchange resins and cationic exchange resins, and wherein the fuel additive is at least partially removed from the ion-exchange resin by means of a chemical interaction ~~disposed within said chamber~~.
18. (CURRENTLY AMENDED) A method for supplying a fuel additive to a fuel comprising: providing to a fuel supply an ion-exchange resin selected from the group consisting of anionic

exchange resins and cationic exchange resins to which is removably bound a fuel additive;
chemically displacing the fuel additive from the ion-exchange resin by means of replacing the
additive on the ion-exchange resin with a material in the fuel, whereby the fuel additive is
released in to the fuel.

19. (CURRENTLY AMENDED) A system for supplying an additive to a fuel and adapted to
release the fuel additive into said fuel at a controlled rate, said system comprising:

an ion-exchange resin to which ~~is removably bound~~ a fuel additive is removably bound
by a chemical interaction, wherein the ion-exchange resin is selected from the group consisting
of anionic exchange resins and cationic exchange resins, and wherein the fuel additive is at least
partially removed from the ion-exchange resin by means of a chemical interaction;

a fuel supply vessel containing said resin; and

fuel.